



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aggr Day	
PO038763	MEC002-VU	1	1	Net 30	M2024T3A.750X.750X.063W	Angle2024T3511 .750 x .750 x .063w : MATERIAL: 2024- T3/T3510/T3511 ALUMINUM ANGLE PER AMS-QQ-A- 200/3 OR AMS 4152/4164/4165 receive ft					24	3/27/2018	24		S049805	Stock	3/9/2018	\$ 35.51 / ft	
Total: 24 24																			

Plex 3/9/2018 2:23 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038763

Supplier:	MEC002-VU Metaux Castle P.O. Box 4090 Stn A Toronto ON M5W 0E9 Canada	PO No:	PO038763
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	PO Date:	1/11/18
		Due Date:	3/27/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dartaero.com
		Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

E-MAILED
JAN 11 2018

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M2024T3A.750X.750X.063W	60-34384-23-144	Angle2024T3511 .750 x .750 x .063w : MATERIAL: 2024-T3/T3510/T3511 ALUMINUM ANGLE PER AMS-QQ-A-200/3 OR AMS 4152/4164/4165 receive ft	Firmed	3/27/18	24 ft	0 ft	24 ft	\$35.51/ft	\$852.24
Grand Total: \$852.24										

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/11/18 10:27 AM dart.lavoie.chantal



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3534427

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA

Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
08-MAR-18	ORIGIN	Prepaid	MANITOULIN	3534427-2

Shipment Details		Final Destination Branch - TOR		
Order No	Line No	Item No	Description	

5009081	1	60-34384-23-144	60-34384-2024-T3511-ALUMINUM.144.0000.A01 SPECIFICATIONS: AMS-QQ-A-200/3	
Purchase Order No	Part Number	Ordered Qty	Invoice Qty	

38763	24.00 FT	24.0000 FT
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavole@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS	

Delivery No.	Mill/Source	Heat Number	Mech Id	PCN	Width (IN)	Length (IN)	Shipped Qty(LBS)
121652589	UNIVERSAL ALLOY CORP.		1		144.0000	1.3080	
121652589	UNIVERSAL ALLOY CORP.		1		144.0000	1.3080	

We hereby certify the material covered by this certificate conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material not to the correct size or material not to the customer's content can be returned.



Castle Metals®

A. M. Castle & Co.

Reviewed by Authorized Castle Metals Representative

Date: _____

Name: _____

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 2 of 2

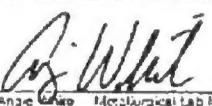
MAR 08 2018



UAC**EXTRUSION MILL CERTIFICATE OF CONFORMANCE**

Inspection & Test Report

Page 1 / 1

Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600										
Certificate Date	05/26/2017		Purchase Order	426750 / 1							
Material	2024		Order Number	513776							
Temper	T3511		Part Number	GS180A8BF Rev. BG / TMS60-34384							
Specification(s)	AMS-QQ-A-200/3 REV. N/C, AMS 4165 REV. H. ASTM B 221 REV. 14										
Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
*Remainder aluminum	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0	Each	Total
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15		
Tensile Test Results					UTS	TYS		Elongation			
Lot No.	Temper	Orient.	Location		ksi	ksi		%			
C737816	T3511	L	Rear		74.2	56.9		13.9			
Additional Information											
AMC CA-01113 R 5											
<p>This is to certify that material applies to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and complies with the contract. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying conformance to these requirements is on file and available for review.</p>											
UNIVERSAL ALLOY CORPORATION 180 Lamar Haley Parkway Canton, GA 30114	 Angelo Lanza - Metallurgical Lab Manager QUALITY ASSURANCE DEPARTMENT										



737816T04

COUNTRY OF MELT & MANUFACTURE - U S A
Rev. 04/18/2016

UAC**EXTRUSION MILL CERTIFICATE OF CONFORMANCE**

Inspection & Test Report

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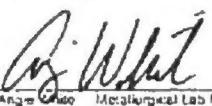
Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600									
Certificate Date	05/26/2017	Purchase Order	425750 / 1							
Material	2024	Order Number	513776							
Temper	T3511	Part Number	GS180A8SF Rev. BG / TMS60-34384							
Specification(s)	AMS-QQ-A-200J REV. H/C AMS 4165 REV. H. ASTM B 221 REV. 14									
Chemical Composition Limits	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
*Remainder aluminum	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0	Each
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	Total
Tensile Test Results					UTS	TYs	Elongation			
Lot No.	Temper	Orient.	Location	ksi	ksi	%				
C737816	T3511	L	Rear	74.2	56.9	13.5				

Additional Information

AMC CA-01113 R 5



This is to certify that material applied to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and complies with the contract. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying conformance to these requirements is on file and available for review.

UNIVERSAL ALLOY CORPORATION 180 Lamar Haley Parkway Canton, GA 30114	 Angie G. White, Metallurgical Lab Manager QUALITY ASSURANCE DEPARTMENT	 UAC Q.A. 12 Lab Approval
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737816T04

 COUNTRY OF MELT & MANUFACTURE - U.S.A.
 Rev. 04/18/2016

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Shipment No:3527381

Page 1 of 2

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. CASTLE & CO. 4175 ROYAL DRIVE SUITE 600 KENNESAW, GA 30144 USA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA

Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
01-MAR-18	ORIGIN	Prepaid	ARCBEST	3527381-2

Shipment Details

Final Destination Branch - TOR

Order No	Line No	Item No	Description				
5009081	1	60-34384-23-144	60-34384.2024.T3511.ALUMINUM.144.0000.A01 SPECIFICATIONS: AMS-QQ-A-200/3				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
38763	24.00 FT	24.0000	FT				
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
Delivery No.	MillSource	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121652589	UNIVERSAL ALLOY CORP.		C737816	1	144.0000	1.3080	
121652589	UNIVERSAL ALLOY CORP.		C737816	1	144.0000	1.3080	

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Matthew Koenig

Date: Name:



EXTRUSION MILL CERTIFICATE OF CONFORMANCE

Inspection & Test Report

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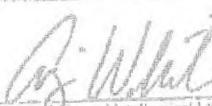
Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600		
Certificate Date	05/26/2017	Purchase Order	426750 / 1
Material	2024	Order Number	513776
Temper	T3511	Part Number	GS180A8BF Rev. BG / TMS60-34384
Specification(s)	AMS-QQ-A-200/3 REV. N/C, ASTM B 221 REV. 14		

Chemical Composition Limits	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti					Others	Each	Total
*Remainder aluminium	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0					0.05	0.15
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15						

Tensile Test Results				UTS	TYS	Elongation	%
Lot No.	Temper	Orient.	Location	ksi	ksi		
C737816	T3511	L	Rear	74.2	56.9	13.9	

Additional Information														
AMC CA-01113 R 5														

This is to certify that material applied to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and complies with the content. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying conformance to these requirements is on file and available for review.

UNIVERSAL ALLOY CORPORATION 180 Lamar Haley Parkway Canton, GA 30114	 Angelo White, Metallurgical Lab Manager QUALITY ASSURANCE DEPARTMENT	
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737816T04

COUNTRY OF MELT & MANUFACTURE - U.S.A.
Rev. 04/18/2016



EXTRUSION MILL CERTIFICATE OF CONFORMANCE
Inspection & Test Report

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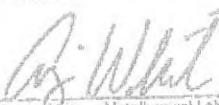
Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600							
Certificate Date	05/26/2017		Purchase Order	426750 / 1				
Material	2024		Order Number	513776				
Temper	T3511		Part Number	GS180A8BF Rev. BG / TMS60-34384				
Specification(s)	AMS-QQ-A-200/3 REV. N/C, ASTM B 221 REV. 14							AMS 4165 REV. H,

Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti				Others		
		Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0	0.0	0.0	Each	Total	
*Remainder aluminium		Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15			0.05	0.15	

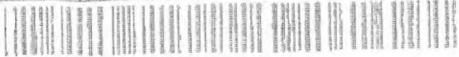
Tensile Test Results				UTS	TYS	Elongation	
Lot No.	Temper	Orient.	Location	ksi	ksi	%	
C737816	T3511	L	Rear	74.2	58.9	13.8	

Additional Information

AMC CA-01113 R 5

<p>This is to certify that material supplied to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and complies with the contract. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying conformance to these requirements is on file and available for review.</p>		
<p>UNIVERSAL ALLOY CORPORATION 180 Lamar Haley Parkway Canon, GA 30114</p>		 Angie White, Metallurgical Lab Manager QUALITY ASSURANCE DEPARTMENT

COUNTRY OF MELT & MANUFACTURE - U.S.A.
Rev. 04/18/2016



737816T04

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024T3A.750X.750X.063W PO / BATCH NO.: 038763/049805
 DATE: MAR 09 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063W
 THICKNESS RECEIVED: .063W
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>AMS-QQ-A-200/3</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Heat # 6737816</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

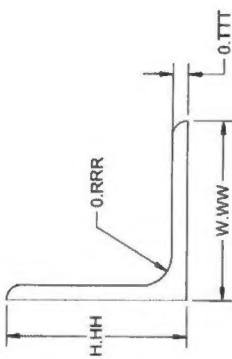
QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-MAR 09 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3/T3510/T3511 ALUMINUM ANGLE
PER AMS-QQ-A-200/3
ORAMS 4152 4164 & 4165
-al

E.G. 0.75" X 0.75" X 0.125" X 0.125" = M2024T3AH0.75XW0.75XT0.125XR0.125



RELEASED
R 2011-03-02 AM

A	NEW ISSUE	DESCRIPTION		A/S	11.02.14
REV.		DESIGN	A/S	BY	DATE
DESIGN		A/S	DART AEROSPACE LTD		
DRAWN		A/S	HAWKESBURY, ONTARIO, CANADA		
CHECKED			DRAWING NO.	REV. A	
MFG. APPR.			M2024T3A	SHEET 1 OF 1	
APPROVED				SCALE	
DEA APPR.				NTS	
DATE	11.02.14				

DATE		A	
ID	DA	REV. A	SHEET 1 OF 1
		SCALE	NTS
E LTD EADITION THREE 3 PUBLISHERS			

11